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Clones may be purchased from BACPAC Resources
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Mammalia; Entheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
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Other_OSSs: RPC1-23-16D17.TJ
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,B., Levins,M., Mcqann,S., Tsegaye,G., Geer,K., Krol,M., de Jong,P.
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Clones are derived from the mouse BAC library kpCl-2% For BAC
Clones are derived from the mouse BAC library analyshility, please contact Pieter de Jong
Library analyshility, please contact Pieter de Jong
Chorary analyshility, please contact befalo.edu/orchased from
LBACPAC keseurces (http://becpac.mad.buffalo.edu/orderinoframe.htm)
or from Resea ch Cenelics (infowresqun.com). BAC end page-
or from Resea ch Cenelics (infowresqun.com). BAC end page-
littp://www.library.html.der.ch.ch.musec.fpc.com/.infro.html
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9712 Medical Center Dr., Kockville, ND 20850, USA
Tel: 301 838 0209
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Seq primer: T7
Class: BAC ends.
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                                                                                                                                                                                                                                                                                                                                                                                 49; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             selected DNA was cloned into the pBACc3.6 vector at the grown sites. The ligation products were transformed into DH10B electrocompetent cells (BRL Life Technologies).
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/elone:"KPC1 23-16517"
/elone_lib:"RPC1-23"
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/strain "C578L/6J"
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RESULT 7

ACCESSION

47.7%; Score 64.4; DB 17; Length 232; 74.2%; Pred. No. 1.6e-11;

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ACCESSION
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The Institute for Genomic kesserch
9712 Medical Canter br., Bockville, Mb 20850, USA
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Other_GSSs: kPC1-23-144Mll.IV
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Class: BAC ends.
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048813 of Library A from Tetraodom migrovinidis, denomic surv
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/elone "kPCL 23-144Mll"
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/strain="C57BL/6J"
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Zhadi "Cidani Kidhey/Arain: Vector: pBACe3.6: Siteli:
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Local Similarity (24.2%) Pred. No. 2.26 [1] Greath Hulp
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Buildings, Mayfield Ed. Edinburgh FH9 3.IR, UK. E-mail contact:
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2 (rollius, H.R., Jaillon, O., pasilva, C., v.cout Costaz, C., Fizames, C., erollius, H.R., Jaillon, O., pasilva, C., cout Costaz, C., Fizames, C., Fischer, C., Bonneau, L., Billault, A., Quetier, F., Saurin, W., Fizames, C., and Weissenbach, J., Quetier, C., saurin, W., Bernot, A., and Weissenbach, J. analysis of the compact genome of the Characterization and repeat analysis of the compact genome of the Ireshwater putteriah ferrandon niuroviridis Genome Res. 10 (7), 939-949 (2000)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Submitted (12-APR-2000) submitted (12-APR-2000) life sequence is a single read and was generated as part of a large scale clone-end sequencing project of the Tetracdon nigroviridis genome. For more information, please take a look at http://www.akularope.com/fc/letracdon.
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### SUMMARIES

No.	Socie	⊖u⊶77 Matich	Query Match Length DB	Ť	Ī	Description
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ı	17.4	27.7	1043	x	US-10-421-853-2442	Sequence 2442, Ar
•	^,	27.4	F-1-1-3	ja 4	1 11 1(8) 2 32727 300	Sequence 30,
-	Ć,	27.1	26,400,	.*	US-09-978-825-30	Sequence 30, April
	7,	27.4	26.303	x	US-10-057-498-30	Sequence 30,
;;	În I	tş.	+	rr	08 10 32 + 624 3707	Sequence 5707, Ap
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3 7	<del>1</del> . z	K5. 3	6.5.41	x	HS-10-429 624-4114	Sequence 4114
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Sequence 118, Application US/60448574
CENERAL INFORMATION:
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TITLE OF INVENTION: PLANT REGULATORY SEQUENCES FOR SELECTIVE CONTROL OF GENE EXPRESS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQ ID NO 118
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FILE REFERENCE: Jim Zegrer Law Offices 703-684-833
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Finand J., Todal Leterminaris, Inc.
LILLE OF INVENTION: Strept receives promotive R6 complete denome.
File Reference: Jim Zodeer Law Offices - 708-684-8333
CHEREN APPLICACE-N EMBERS (IS,75,75,75,1853
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US-10-057-498-30
; Sequence 30, Application US/10057498
; GENERAL INFORMATION:
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; GENERAL INFORMATION:
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CURKENT FILING DATE: 2001-04-20
NUMBER OF SEQ 1D NOS: 29212
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APPLICANT: Persing, David
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                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.4Mb storage
COMPUTER: HP Vectra 486/33
OPERATING SYSIEM: MSDOS version 6.2
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                                                                                                                       FILING DATE: 27 Dec 2002 PRIOR APPLICATION DATA:
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                                                                                                                                                                                                                                                       CURRENT APPLICATION DATA:
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AppLICATION NUMBER: 08/956,171
FILING DATE: October 20, 1997
APPLICATION NUMBER: 60/009,861
                                                                                                                                                                                                                                                                                                     SOFTWARE: ASCII Text
                                                                                                                                                                                                                            APPLICATION AUXBUS, US, 18,729,624
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US-10-329-624-87
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INFORMATION FOR SEQ ID NO: 3707:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GENERAL INFORMATION:
APPLICANT, Charles Kunsch
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NAME: MATK J. Hyman
REGISTRATION NUMBER: 46,789
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TOPOLOGY: linear SEC ID No: 3707:
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                                                                                                                                                                                                       FILING DATE: January 5, 1996
APPLICATION NUMBER: 08/781.586
FILING DATE: January 8, 1997
ATTORNEY/AGINT INFORMATION:
NAME: Mack J. Hyman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER READABLE FORM:
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                                                TELECOMMUNICATION INFORMATION:
TELEPHONE: (240) 314 1224
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APPLICATION NUMBER: 08/781,986
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STREET: 9410 Key West Avenue
CITY: Bockwille
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FILING DATE: 27-Dec-2002
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FILING DATE: October 20, 1997
APPLICATION NUMBER: 61/009,861
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TELEFAX: (301) 309-8439
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Steven C. Baras
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                          SEQUENCE DESCRIPTION: SEQ ID NO: <777:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Match 25,4%; Sourc 45,6; 1st 8; Lebath 9425; out Similarity 5,146; First, No. 1, 28;
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NUMBER of SEQUENCES: $256
CORRESPONDENCE ADDRESS:
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                                                                                                                               Query Batch 130.0%, Score 185, Lb 33, Best Local Similarity 100.0%; Pred. No. 3.8e-35; Matches 185; Conservative 6; Mismatches 6,
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                                                                                                                                                                                                                                                                                            PRIOR APPLICATION NUMBER: PCC TEGG 947 PRIOR FILING DATE: 1999-08-31 PRIOR APPLICATION NUMBER: JP 10/244755
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NUMBER OF SEQ 1D NOS: 25
SOFTWARE: Patentin Ver. 2.1
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APPLICANT: KOSEKI, SHIC
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                                                                                                                                                                                 OTHER INFORMATION: Description of Artificial Sequence: Nucleotide of
HER INFORMATION: Sequence of RZ2 \,
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                                                                                            US-09-704-525-53
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                  Ouery Match 64.7%; Score 87.4; DB 28; Length 142; Best Local Similarity 79.8%; Pred. No. 5.1c-15;
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APPLICANT: KARASHINA, MASAKI
APPLICANT: KUWAIKAPA, TOMOKO
APPLICANT: KAWASAKI, HIROAKI
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APPLICANT: KOSEKI, SHIORI
  Matches 103;
                                                                                                                                                                                                                                                                                                                                      CURRENT FILING DATE: 2000-11-03
TEFF APPEACATION NUMBER: P. 2161-4/1999
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APPLICANT WARAZEINA, LEPRO
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APPLICANT: TAISHO PHARMACEUTICAL CO., LTD.
TITLE OF INVENTION: NUCLEIC ACID ENZYME HAVING ALLOSTERIC RNA-CLEAVING
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CURRENT FILING DATE: 2000-09-12
NUMBER OF SEQ ID NOS: 4
                                                        Query Match 61.3%; Score 82.8;
Hest Local Similarity 97.7%; Pred. No. 1.
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CHERRENT AFFLICATION NUMBER: US/A4,7623,932A
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PRIOR FILING DATE: 1999_03_11
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SOFFWARE: Patentin version 3.1
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PRIOR APPLICATION NUMBER: JP 2000-413320
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APPLICANT: WARASHINA, MASAKI
APPLICANT: KUWARARA, TOM-960
APPLICANT: KUWARARA, TOM-960
APPLICANT: KUWARARA, HEPAKI
FILLE OF INVENTION: FUNCTIONAL CHIMERIC MOLECULES CAPABLE OF SLIDING PILE REPERENCE: 081356/0151
CURRENT APPLICATION HERITS 185/09/704/525
CURRENT FILLING DATE: 2000-11-03
LYKOK FILLING DATE: 1999-11-05
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PRIOR APPLICATION NUMBER: JP 2000-313320
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PRIOR APPLICATION NUMBER: US 60/199,911
PRIOR FILING DATE: 2000-04-26
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CURRENT FILING DATE: 2001-04-23
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; GENERAL INFORMATION:
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    Query Match
    27.9%; Score 37.6; DB 10; Length 246;

    Best Local Similarity
    53.9%; Prod. No. 0.00036;

    Matches
    41; Conservative
    11; Mismatches
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CURNLET ADJUGATION HORSES HOT MY 842,552
CURRENT FILING DATE: ZOUT-04 23
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                                                                                      TELEFAX: (301) 309-85
INFORMATION FOR SEQ ID NO: 846:
SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                              REFERENCE/DOCKET NUMBER: PB369
TELEPHONE: (301) 309-8504
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER: HE Vector 486/33
OPERATING SYSTEM, MSD65 version 6.2
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FILLING DATE: 04 May 2000
CLASSIFICATION: <URKNOWN>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: 60/066,009 FILING DATE: 1997-11-14
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Query Match
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                                                                                                                                                                                                                                                                                                                                                  CURRENT FILING DAFE: 2001-09-18
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PRIOR FILING DAFE: 1999-09-09
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APPLICANT: Schaffner, Gotthold
Hillab of HWYLKITON, Claukes Edit; letted Orphan (CELO) Vitus
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LOCATION: (17559)..(21754)
OTHER INFORMATION: /gene: L3
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HELE & INVENTION SHOWS IDENTIFIED AS EXPLITED TO F.

HILE REPRESENTE ELIPATION OF E. COLE

FILE REPRESENTE ELIPATION TO SOLVE STATEMENT OF THE COLE

FURNISHED AND THE ZEOTTZ 19

FROM APPLICATION MEMBER: 25 05/17 005
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Patent No. US20020061569Al
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CURRENT FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/191/078
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PRIOR APPLICATION NUMBER, 60/269,308
PRIOR FILING DATE, 2001-02-16
NUMBER OF SEO ID NOS: 14110
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITLE OF INVENTION: Identification of Essential Genes
ITTLE OF INVENTION: Prokaryotes
FILE REFERENCE: ELITRA.011A
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                                                                                                                                                                                                                                                                                                                 PRIOR FILING DATE: 2000-12-22
PRIOR APPLICATION NOMBER: 607
                                                                                                                                                                                                                                                                                                                                                                                                                             PKIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR FILING DATE: 2000-10-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR APPLICATION NUMBER: 69/207,727 PRIOR FILING DATE: 2000-05-26
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                                                                                                                                                                                                                                             NUMBER OF SEQ ID NOS: 14110
SOFTWAKE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                              PRIOR FILING DATE: 2001-02-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR FILING DATE: 2000-05-23
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Search completed: March 16, Job time: 123 sees
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Best Local Similarity
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CURRENT FILLING DATE: 2001 03:12
NUMBER OF SEQ ID NOS: 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: KIEFFER, TIMOTHY J.
APPLICANT. CHECKO, ANTHENY T.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR RESULATED DROISIN
TITLE OF INVENTION: EXPRESSION IN OUT
FILE REPERENCE: 029965/027 8721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SOFTWARE: Patentin Ver. 2.1
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APPLICANT: Ho, Arth.

APPLICANT: Ho, Arth.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MEDIUM TYPE: Floppy disk
COMPUTER: ISM PC computible
OPERATING STSTEM. PC LOS/MS-DOS
SOFIWARE: Patentin Release #1.0, Version #1.30
CURRENT AFFLEARITH DATA.
                                                                                                                                                                                                                                      RECISTRATION NOMBER: 21,677
REFERENCE,7000KET HEMBER: 23
FELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                            APPLICATION NUMBER: US 08/245,742
PILING DATE 17 MAY 1594
ATTORNEY, OFFIT TUM-SEATION.
NAME: Weber, Konneth A.
RESISTEATION NUMBER: 21,677
REFERENCIA, TOWNER HEMBER: 2,071,007
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PRIOR APPLICATION DATA:
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                                                                          WALLSTEEL BLACK
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FITLE OF INVENTION: Ribozyme Gene Therapy for HIV Infection
FITLE OF INVENTION: and AIDS
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                                                                                                         TYPE: nucleic acid
STRANDEDNESS: single
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CITY: San Francisco
OTHER INFORMATION:
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                                                                                                                                                LENGTH: 132 base pairs
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(415) 543-5043
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; Sequence 17, Application US/08876996
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELEPHONE: (415) 543-9600 TELEPHONE: (415) 543-5643 MI ONMALLON FOR JUNE 10 NO. 173
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MEDIUM TYPE: Floppy disk
COMPUTER: HBM PC compatible
OPERATING SYSTEM: PC PUSSMS-DOS
SOFTWARE: Patenth Release #1.0, Version #1.40
CURRENT APPLICATION DATA:
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FILTMO DATE:
ALIGNBY/ACIME INFORMATION:
NAME: Weber, Konnoth A.
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MEDIUM TYPE: I'Loppy
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TELESCHMURICATION INFORMATION:
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Host Jorda Similarity (2274) Pred. No. 5.1e 15;
Matches (8) Superportive Let Misharotes 2: Indels
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OPERATING SYSTEM: IBM P.C. DOS 5.0

COMPUTER:

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RESULT 7
US 08:512-861A-10
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: Patent No. 6146886
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TELEX: 67-3510
INICHMATION FOR SEQ ID NO: 6
                                                                                      FILING DATE: NO. 6146886ember 10, 1994
AFFURNEY/AGENT INTERMATION:
                                                                                                                         PRIOR APPLICATION DATA: Two
APPLICATION MUNEE: 08/29/,520
FILING DATE: AUGUST 19, 1994
APPLICATION NUMBER: 08/337,608
                                                                                                                                                                                                  CURRENT APPLICATION DATA: APPLICATION NUMBER. US FILING DATE: August 8,
                                                                                                                                                                                                                                                                                                                     COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
                 REGISTRATION NUMBER: 32,327
REFERENCE, TYPERET REMBER: 21
LELECOMMUNICATION INFORMATION:
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ATTORNEY/AGENT INFORMATION:
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TELEPHONE:
                                                                     NAME: Warburg, Richard
                                                                                                                                                                                                                                                    SOFTWARE: FastSEQ Version 1.5
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STREET: 633 West Fitth Street
STREET: Suite 4700
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                                                                                                                                                                                                                                                                                      IBM Compatible
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(213) 489-1600
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                                                                                                                                                                                                August 8, 1995
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; Patent No. 6146886
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                                                        Matches
                                                                                       Query Match
                                                                      Query Match 28.4%; Score 38.4; 55 ; Leggth 146; Best Local Similarity 97.5%; Prod. No. 9.1e-05;
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SOFTWARE: FastSEQ Version 1.5
CURRENT APPLICATION DATA:
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MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                                                                                                                                  SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                     REFERENCE, THOUSENEY NUMBERS 2:
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APTORNEY/AGENT INFORMATION:
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TITLE OF INVENTION: HAUSCARD RNA FOLYMERASE 111-BASED
TITLE OF INVENTION: EXPERIENCE OF THERAFIDE IN RAS
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82 CACAACACUGAUGAGGACCGAAAGGUCCGAAACGGCACAC) 121
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TELEFAX: (213) 955-0440
TELEX: 67-3510
                                                                                                                                              STRANDEDNESS: single
Topology: linear
                                                                                                                                                                                  TYPE:
                                                                                                                                                                                                                                                                                                                                           REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                             FILING DATE: August APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: US/08/512,861A FILING DATE: August 8, 1995
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STREET: 633 West Fitth Street
STREET: Suite 4700
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COMPUTER REALABLE FORM:

COUNTRY: U Z:P: 27709

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MEDIUM TYPE: Floppy disk COMPUTEK: IBM PC compatible OPERATING SYSTEM: PC DOS/MS-DOS SOPTWAKE: Patenth Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER:

JMBER: US/08/998,416 24-DEC-1997

CLASSIFICATION: FILING DATE:

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                                                                                                                                                                                                                                                                  Query Match
                                                                                                                                                                                                                      Rest Local Similarity
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LERGTH: 48E/ base pairs
TYPE: NUCLEIC ACLD
STRANDEDNESS: double
TOPOLOGY: linear
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                                                                                                                             22.76; Score 30.6; DB-1; Length 4887;
milarity 46.4%; Pred. No. 0.18;
Consorvative i3; Mismatches 54, 7, 7,
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ER: MIT-5091AA
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; sequence 7, Application US/08005002c ; Patent No. 5494818 us-08-005-002C-7/c RESULT 13 GENERAL INFORMATION: APPLICANT: Tobias, John W.
APPLICANT: Varshaffy, Afexander
TITLE OF INVENTION: Ubiquitin Specific Professes
NUMBER OF SEQUENCES: 9 APPLICANT: CORRESPONDENCE ADDRESS COMPUTER READABLE FORM: CURRENT APPLICATION DATA: STATE: SOFTWARE: Patentin Kelease #1.0, Version #1.25 COMPUTER: 1BM PC COMPUTER: DOSS/MS-108 COUNTRY: STREET: Z1P: ADDRESSEE: APPLICATION NUMBER: MEDIUM TYPE: 03911 York Harbor Maine P.O. BOX 999 Baker, Rohan T. U.S.A. 1BM PC compatible Keyin M. Farrell, F.C Floppy disk us,/uk/305, 0020

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64 GAAACCGGGGC 73

08-998-416-947

ORIGINAL SOURCE:

ORGANISM:

PAG1586RP

STALL STINSFIGM

: ASOTOMOL

linear

DNA (denomie)

STRANDEDNESS: Single

nacteic acid

PRIOR APPLICATION DAIA:
APPLICATION HIMBER: CH 0016/97
ELING DATE: 81-DEC-1996
ALTORNET/AGINT HIMMEN: 90.
NAME: MOIGE, J. Timothy
BECTSHAFION HIMMER: 38,241
KHTEKINES, PF-FAI NORMOTION:
TELEPONMUNICATION INFORMATION:
TELEPONE: 919-541-8689
TELEFAX: 919-541-8689

INFORMATION FOR SECTIONO: 947:

SEQUENCE CHARACTERISTICS: LENGTH: 702 base pairs

Query Match 23.4%; Score 31.6; DB 4: Longth 702; Best Local Similarity 47.1%; Prod. No. 0.041; Matches 43; Conservative 13; Mismatches 24; Indels (

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INFORMATION FOR SEQ ID NO: TELEPHONE: 207-364-0558
TELEPAX: 207-363-0528 ATTORNEY/AGENT INFORMATION: CLASSIFICATION: 485
PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA: FEATURE: SEQUENCE CHARACTERISTICS: REGISTRATION NUMBER: 35,505 REFERENCE/DOCKET NUMBER: MIT 5091AAZ APPLICATION NUMBER: US 0 FILING DATE: TYPE: nucleic acid STRANDEDNESS: double NAME: NAME/KEY: CDS ToPoLoGY: linear LENGTH: 4887 base pairs /AGEN: .... Factell, Kevin M. - A KHMHER: 35,505 15-JAN-1993

; Sequence 7, Application US/07789915A ; Putent No. 5212058 HS-07-789-915A-7/C GENERAL INFORMATION:
APPLICART, Baker, Polore 1
APPLICART, Baker, Polore 1
APPLICART, Variancety, Alexander
TITLE OF INVENTION: Ubiquitin-Specific Proteases
NUMBER OF SEQUENCES: 8 CORRESPONDENCE ADDRESS: COMPUTER READABLE FORM: SOFTWARE: Patentin Release #1.0, Version #1.25 CURRENT APPLICATION DATA: 469 GAICCITGGGC 460 ATTOKNEY/AGENT INFORMATION: NAME: Brook, David E. STREEL: Two main COUNTRY: ADDRESSEE: CLASSIFICATION: FILING DATE: APPLICATION NUMBER: 02173 Massachusetts Two Militia Drive U.S.A. Hamilton, Brook, Smith & Reynolds, P.C. 19911108 ms/07/789,915A

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15 (28) 1 (8) (128), 14(18)
13 (98) 487 (16)(A/7)
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Nest: Local Similarity 46.46

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E Lifeta.K., Gasea, A. and Gaski, S.

Expression system for functional nucleic acid transcription NL Patent: JP 200006972-A 5 07-MAK-2000;

ANIMOY OF IND SCHENGE & IECHNOL, GS ARTIFICIAL Sequence PN JP 200006972-A/5

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                                                                                                                                                                                                                                                                                                              Ç.
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                                                                                                                                                                                                                                                                                                                  0; Indels
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9
Matches 103; Conservative
                                                   Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        House proceedance a mena targeted althoryme OPP RZ5
                                                                                                                                                                                                                   functions of binding to RNA, sliding and unwinding its high-order structure. Chimeric molecules of the invention, including CEE-ribosymus, and expression vectors, are used to prowent or treat viral diseases, diseases associated with apoptosis or diseases associated with apoptosis or diseases associated with about a claimed. They are also used in a claimed method of specifically cleaving a target mucleic acid, especially a viral gene, protonomegene or a gene
                                                                                                                                                                                                                                                                                                                                                                                                                                    expression plasmids and procuspase 3 expression levels were determined by Western blotting after 46 hr. CHE Hisked ribozymes were more effective that their conventional counterparts for inhibiting GPH23 gene expression. The CHE modely facilitates eleavage of RNA previously considered retractory because of local high-order structure. It binds to KNA helicase A, which has finely most of blocking to kna belief the seal model at the block of the content of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                element (CTE, See AAF30944) for inhibition gene expression. 5 kibozymes for different sites in CFP32 mkNA were designed (see AAF90392-96). Mouse NIHST3 cells were transferred at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CPP32, apoptosis; gene therapy; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            06-AUG-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAF90396;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        efficacy of hibrid ribecymes linked to a constitution transport element (CTE, See AAF30944) for inhibition gene expression.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     previously considered inaccessible. CPP32 is an apoptosis related gene encoding procaspase 3. CPP KZ3 was used to demonstrate the high
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 1; Page 49; 76pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      disease, comprises region with binding attinity for molecule capable
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Novel chimeric molecule useful for claritying biological function of target nucleic acid and for treating viral diseases, and Alzheimer's
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPT: 2001-357832/38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Taira E, Warashina M, Kuwabara T, Kawasaki H;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (TAIR/) TAIRA K.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (INSC-) SEC AGENCY IND SCI & TECHNOLOGY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           05-NOV-1999;
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                                                                                                                              Sequence 142 BF; 39 A; 37 C; 37 G; 29 U; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      targeted to a stem-structured site site in mouse CPP3 mkNA that was
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The present sequence is that of moved ribozyma CPP RZS, which is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   associated with apoptosis.
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                           y Match 64.7%;
Local Similarity 79.8%;
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      0; Mismatches
                              Score 87.4; DB 22;
Pred. No. 1.30-20;
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      [ndcls
                                                                           Length 142;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAZSBES Standard: DNA: 1 o BP
                                                                                                                                                                                                                                                          TRNA Lie MA RZ Ribozyme.
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                                        Mat.amia' disease;
                                                                                                                                                                                                                                                                                                                                                                                                            Treat 2 n2 (tirst entry)
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                                                                                                               61 UFF STAMA SCORESTANUM SMAMAM CAM UUUNUMMAGAGNAWAD UUMMAGAGNAAA TZU
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У. У. ПЛОКОЛИ ГОВИАСИВЛИКИ ПОВИТИВНИКИ ПОВИТИВНИТЕЛЬНИ ПОВИТИТЕЛЬНИ ПОВИТИВНИТЕЛЬНИ ПОВИТИТЕЛЬНИ ПОВИТИТЕЛЬНИ ПОВИТИТЕЛЬНИ ПОВИТИТЕЛЬНИ ПОВИТ
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Furthermore, a ribusyme expression system with bias efficiency can be developed, based on a linker sequence which a highly functional ribesyme has, and this expression system can be applied for treatment of malitunant diseases such as cameers and intectious diseases including acquired immuno deliciency syndrome (AIDS). The present sequence represents the RNA sequence of the tEMA Luc 27A Fr Fiberyme of the invention
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(TAIR/) TAIRA K.
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Local Similarity 69.7%; Pred. No. 1.20-19;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 88 BP; 22 A; 25 C; 21 C; 19 U; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          maxizyme enzyme of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           sequence represents the tRNA-val promoter sequence relating to the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAH47825 standard; DNA; 100 BP
                                                                                                                                                                                                                 ribozyme, comprising modification of a candidate ribozyme sequence taken from 8 hammerhead type ribozymes expected to eleane mEMA derived from the
                                                                                                                                                                                                                                                                                                                                                                A screening method for active ribozyme.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         05-NOV-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          05-NOV 1999,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human tkNA promoter sequence
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                                                                                                                                             Sequence 100 BP, 30 A; 25 C; 21 G; 24 T; 0 other;
                                                                                                                                                                                                    p16 dene and for screening for inhibition of expression of a cancer
                                                                                                                                                                                                                                                       The invention relates to a method for screening of in vivo active
                                                                                                                                                                                                                                                                       the present sequence is that of the human tRNA promoter sequence useful to the invention for expression of the modified ribozyme sequences.
                                                                                                                                                                                                                                                                                                                            Example 1; Page 3; 9pp; Japanese
                                                                                                                                                                                                                                                                                                                                                                                                                                     (KEIZ ) KEIZAI SAMSYOSH- SANGY- GIJUTUU SOAO KEN
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                                                                                                                                                                               inhibitory gene.
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ACCOTTOGTTTCCCGTAGIGIAGIGGATATCACGTTCGCTTAACACGCGAAAAGGTGCCCGG 60
                                    ACCIMUGGUUUCCGUAGUGIIAGIIGGUUAUCACGUUCGCCIIAACACGCGAAAGGUCCCCGG 60
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75.6%, Pred. No. 4
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                                                                                  (DOKU-) DOKURITSH GYOSEL HOLLIN SANGYO GIJUTSU SO
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A nucleic acid engine which has below the and effective oradicating activity towards harmful cells by acquiring cleavage activity of a specific target  $\kappa NA$  by recognition of the other  $\kappa NA$  molecule .

The invention relates to a nucleic acid enzyme with modifiable RNA clearwage activity. More specifically the invention relates to a nucleic

bisclosure: Fig 7; 17pp; Japanese.

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                                                                                                                                                                                                                                                                                                                                  The present sequence is that of Lovel ribozyme CPP k23, which is rathered to a site in mouse PPP2 mKNA. EPP32 is an apoptosis-related done elecation procaspase 3. PPP R23 was used to demonstrate the high efficiety of hybrid ribozymes linked to a constitutive transport element (PTE, See AAF 1044) for inhibition dense expression. Philosymes for different sites in PP42 mKNA were designed (see AAF10812-95). Mouse NiHeix cells were transfected with ribozyme
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Novel stagestic molecule sectul for clarifying biological function of
target nucleic acid and for freating viral diseases, and Alzheimer's
diseases comprises region with binding affinity for molecule capable of
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elegrane of KNA presissaly considered refractory because of local blancader structure. It binds to KNA belieuse A, which has
                                                                                                   express in plasmids and pricaspase texpression leeks were determined by Western that find after 36 fr. CIE-linked ribozymes water more effective that their conventional counterparts for inhibit in CIE-2 gene expression. The CIE molecy facilitates
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 1: Page 48; 76pp: English.
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chowers (CTE, See AAF-60044) for inclination with expression (See S. Ribodymes, for distributed stress in CTE, and AAA, were described (See AAF-60042) for inclination of stress (See AAF-60042) for inclination of the stress (See AAF-60042) for an inclination of the stress (See AAF-60042) for the stress (See AA

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Bost Local :
                                      element (CTE, See AAF30944) for inhibition ache expressian (see 5 Ribozymes for different sites in CTP32 aAFA were designed (see AAF90392-96). Mouse NHBT3 cells were transfected with ribozyme expression plasmids and precaspase 2 expression to cels were determined by Western blotting after 36 hr. CTE linked ribozym were more effective that their correctional equitographs for were more effective that their correctional equitographs.
                                                                                                                                                                                                                                                                                                                                                           The present sequence is that of movel ribudgme 2FF 5d2, which is targeted to a site in mouse GPP92 meMA. GPS2 is an apoptosis related usine encounting processors: CPF Kd2 was used to demonstrate the high efficacy of hybrid ribusgmes licked to a constitutive transport
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Novel chimeric molecule useful for clarifying biological function of target nucleic acid and for treating firal diseases, and Alcheimer's disease, comprises region with binding affinity for molecule capable of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         diseases associated with abnormal gene expression (claimed). They are also used in a claimed method of specifically clearing a target nucleic acid, especially a cital gene, proteoningces or a sene
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inhibiting CPP32 gene expression
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 1; Page 47; 76pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  99JP-0116133
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97.7%;
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RESULT 15
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Matches 84; Conservative
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Bost Local Similarity
             The present sequence is that of novel ribosyme Off ket, which is forested to a site in course Off 2 maRM. Offer is an apoptosis related and enactionable processes. Offer ket was used to demonstrate the high citizany as higher large ribbed to a received for transport element (Offer See AMFOD44) for inhibition quot expression.

2 Elbosymess for different siles in Offer Company were designed (see AMFOD342). Both the siles in Offer Company were designed (see AMFOD342). Both the siles in the course of particle particle were transfered with the symmetric particle of the offer siles were determined by Western Electing (1997). Both of the offer siles are considered by Western Electing (1997).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  functions of binding to RNA, sliding and unwinding its high-order structure. Chimeric meteorales of the becoming, including CTE ribosymes, and expression recture, are used to precent or treat viral diseases, diseases assectated with apoptosis or
                                                                                                                                                                                                                                      Example 1; Page 48; 76pp; English.
                                                                                                                                                                                                                                                                                                      disease, comprises region with binding attinity to molecule capable of
                                                                                                                                                                                                                                                                                                                          Werel chimeric melecule useful for clarifying biological function target nucleic acid and for freating viral diseases, and Alzheimer
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      nucleic acid, especially a viral gene, protouncegene or a gene
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (THSC) SEC ACESCY IND SCI & TECHNOLOGY (TAIR/) TAIRA K.
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                                                                                                                                                                                                                                                                                                                                                                                                                                      Warashina M. Kuwabara !, Kuwasaki fi;
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were more effective that their conventional counterparts for

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inhibiting CPP42 deta expression. The CTE modety incilitates of colorande of RNA previously considered regrectory because of local objects of high-order structure. It binds to RNA belicase A, which has structure. Chimeric molecules of the invention, including to kna stiding and unwinding its high-order structure. Chimeric molecules of the invention, including color of the interpretary and expression vectors, are used to prevent or treat vital diseases, diseases associated with apoptosis or treat vital diseases, diseases associated with apoptosis or diseases associated with abnormal gene expression (claimed). They are also used in a claimed method of specific value (claimed). They are also used in a claimed method of specific value or a gene or associated with apoptosis.

XX Sequence 142 BP: 37 A: 40 C: 34 G: 31 U: 0 other;

Outery Match
Sequence 142 BP: 37 A: 40 C: 34 G: 31 U: 0 other;

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Sequence 142 BP: 37 A: 40 C: 34 G: 31 U: 0 other;

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